

Title: Network Timetable

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Installation: Stanford Research Institute

Date: 24 March 1969

Network Working Group Request for Comment: 4

:N10. 03/24/69 1342:42 EBS ;

1 (n10) network check out

2 Installation of communication gear 8/1/69

2a From AT&T and/or BBN need dimensional, power and cabling specifications

2b Need to establish SRI desired alternate locations so as to determine maximum telco cable lengths

2c Need to establish location and drops on voice coordination circuits

2d Need circuit information on voice drops for tie to intercom system

2e Need to order and instal a.c. power (coordinate with 4e)

2f See 16

3 Design and construct host-Imp interface 9/1/69

3a Need specifications from BBN

3b Develop trial design

3c Review with system programmers

3d Establish final design

3e Build and design hardware

3f Debug trial software with hardware loop test

4 Imp installation 9/15/69

4a From BBN get dimensional, power and cabling specifications

4b SRI orders and installs a.c. power (coordinate with 2e)

5 Debug host-Imp interface 10/1/69

5a Get debug specifications and procedures from BBN

5b Write programs to debug with BBN

5b1 Transfers bfr test messages

5b2 Test procedures for crash and recovery

5b3 Check message fill and stripping procedures

5c Try own transfer tests

5c1 Verify transfers to Imp

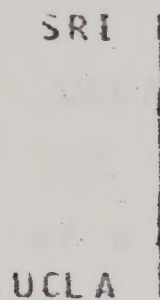
5c2 Verify transfers from Imp

5c3 Verify transfers looped with Imp

5d work out Imp reload and restart procedures

6 Test messages between UCLA-SRI 10/15/69

6a Network configuration



6b Agree with UCLA on nature of test messages

6b1 Formats

6b2 Sequences

6b3 Checks

6b4 Test procedures

6b5 Fault reporting

6c Test integrity of messages

6d Test sequence of delivery

6e Measure delays

6f Loop with UCLA

6g System response to invalid and abnormal conditions

6h Lose and restore facilities

6h1 Communication link

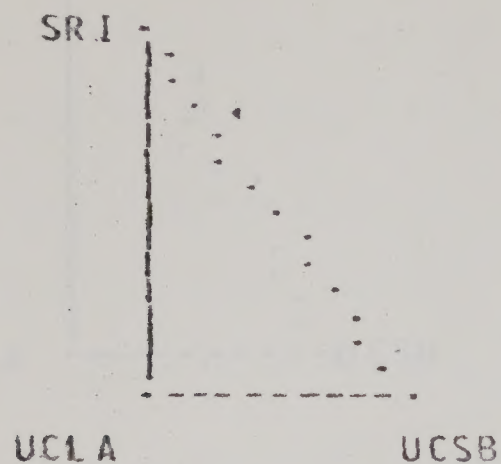
6h2 Imps

6h3 Hosts

6i Develop net trouble reporting scheme

7 Test messages between JCSB-SRI 11/15/69

7a Network configuration



7b All of 6

7c Load network for alternate routing to be effective

7d Develop voice coordination scheme

7d1 Three way conference

7d2 Design and build conference gear

7d3 Deliver conference gear to UCLA and UCSB

7e Route messages around ring

7e1 Via Imps

7e2 Via hosts

7e3 Six tests

7e3a UCLA-I, UCSB-I

7e3b UCLA-H, UCSB-I

7e3c UCLA-H, UCSB-H

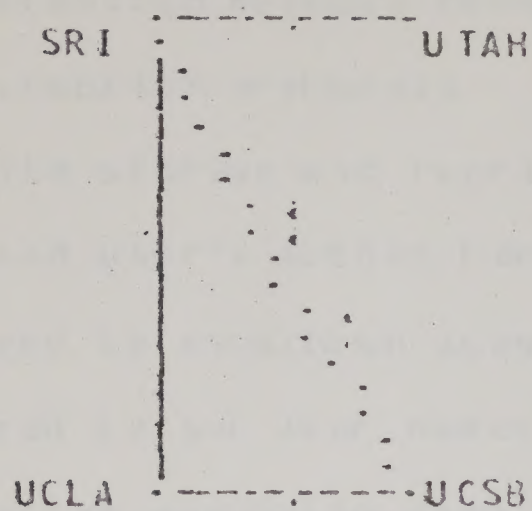
7e3d UCSB-I, UCLA-I

7e3e UCSB-H, UCLA-I

7e3f UCSB-H, UCLA-H

8 Test messages between UTAH-SRI 12/15/69

8a Network configuration



8b Selected group of previous tests

801 All of 6

802 70

8c Expand voice coordination scheme

8c1 UTAH has access to UCLA and UCSB via SRI

8c2 with B3N. -and ARIPA

9 Run sample TTY systems

9a single user access

9.1 On a serving host

9a 1a A to B

942 From a using, hospit

9a 2a A to B

9b Multiple user access

901 On a serving host

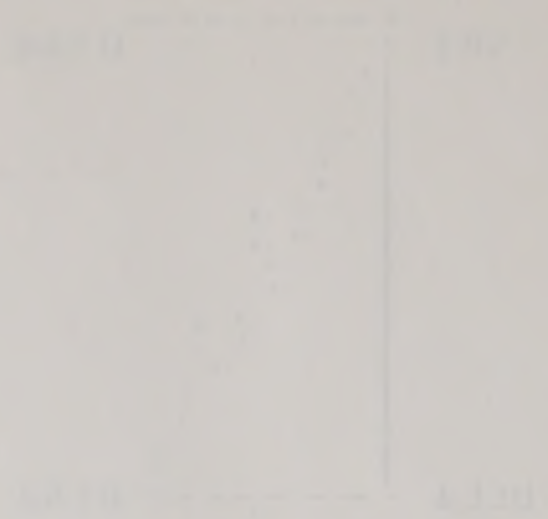
9b 1a A,C 201 B

902 From a using host

9b 2a A.A : 01 8

903 Various combinations

9c Login, logout, in and out of subsystems



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to 1000 ft. (approx.)

- 9d Handling of error messages, crashes, recoveries
- 9e Establish message formats
- 9f Establish protocols
- 9g File storage and retrieval
- 9h Need user's guides for each site
- 9i Need to establish usage schedules
- 9j Need to set user names
- 9k Design and build comm exec or its equivalent
- 10 Run simple typewriter systems
 - 10a Same as 9c - 9g
 - 10b How define when in half or full duplex mode
 - 10c How to set "break" characters
- 11 Run arbitrary terminals without local feedback
- 12 Run arbitrary terminals
- 13 Move files
- 14 Develop debugging techniques
 - 14a Fault detection
 - 14a1 Conformance to manual
 - 14a2 "Reasonableness" of result
 - 14a3 Comparison with alternate form of use
 - 14b Cause localization
 - 14b1 Comm-line complex
 - 14b2 Serving host
 - 14b3 Using host
 - 14b4 Try other programs
 - 14b5 Monitor subsystem via "link" procedures, where possible
 - 14b5a Use dialup Dataphone

14b5b Use voice coordination channel

14b6 Move canned messages

14c Cause determination

14d Cause correction

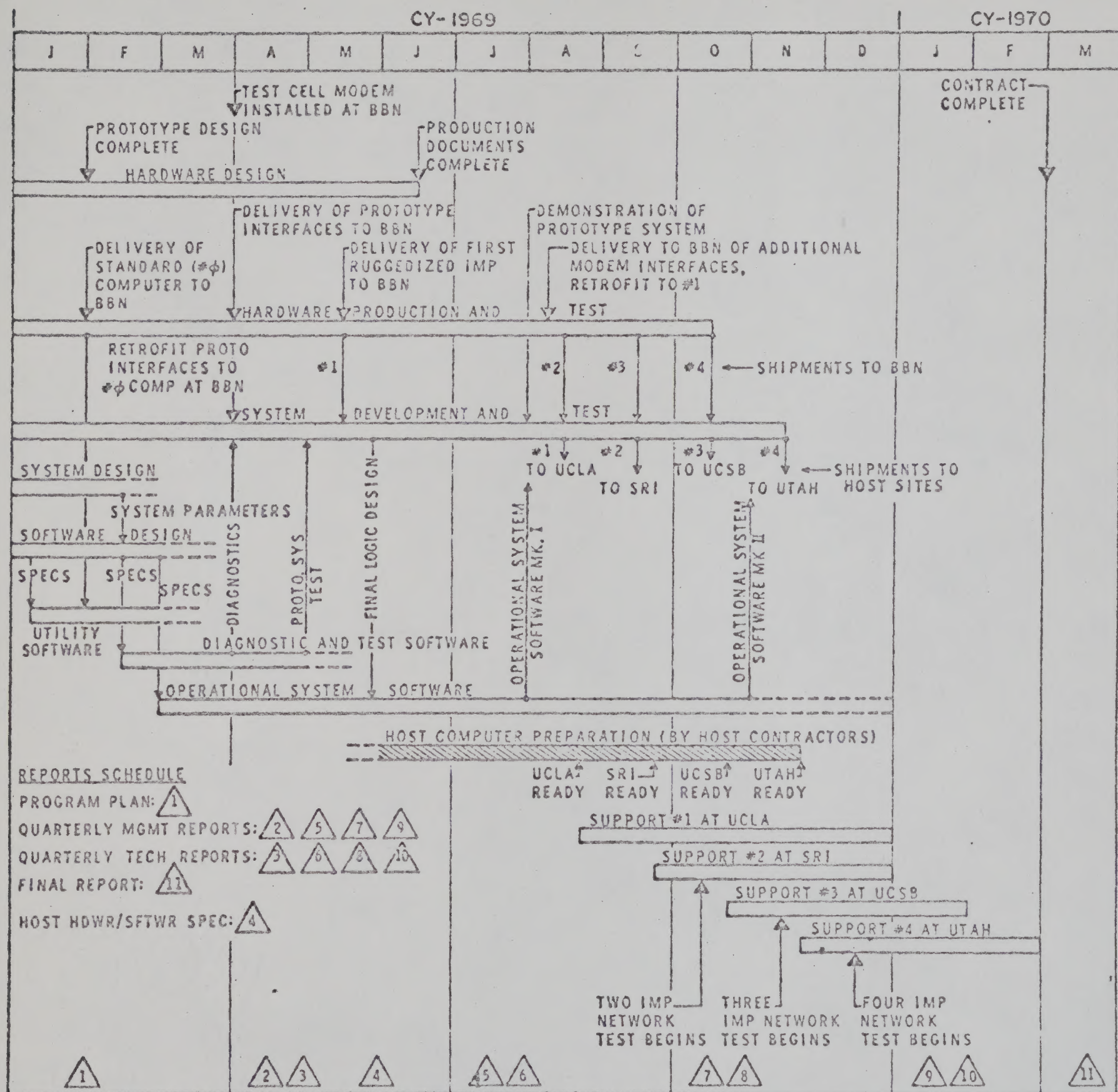


FIG. 1 IMP PROGRAM SCHEDULE

